



SIGNAL GO-SIES-CSM SUMMIT

Improving Network Security and Operational Effectiveness

ARMY CIO/G-6

AMERICA'S ARMY • THE STRENGTH OF THE NATION • ARMY STRONG



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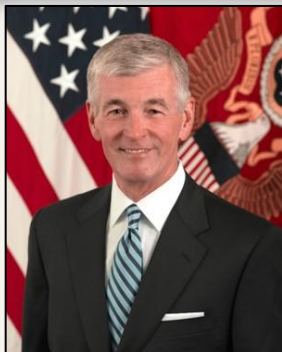


Overview

- ★ Leadership Direction – Future Network End-State
 - IT Management Reform
 - End-to-End Network Modernization
- ★ Strategic Choices – Competing Priorities and Dwindling Resources
- ★ The Network is Core to a Smaller, More Capable, Better Trained Expeditionary Army
- ★ Enterprise Email Update and Other Top Priorities
- ★ Network Security is Commander's Business



Leadership Direction



“...reforming and restructuring the Institutional Army – the Generating Force – to reflect the same innovation and adaptability we have in our Operating Force is critical to maintaining our operational capability.”

HON John M. McHugh
Secretary of the Army
09 September 2011

“Army Forces do not operate independently but as part of a larger Joint, Interagency ... effective integration requires creating Shared Understanding and Purpose through Collaboration.”

Gen. Raymond T. Odierno
Chief of Staff of the Army
January 2012



“I deploy to Iraq and I have superior communications support. I redeploy to Fort Bragg and I return to the stone ages. We must have the same network we fight with back at home station. We must train as we fight and have access to our information wherever we are ... We need it now.”

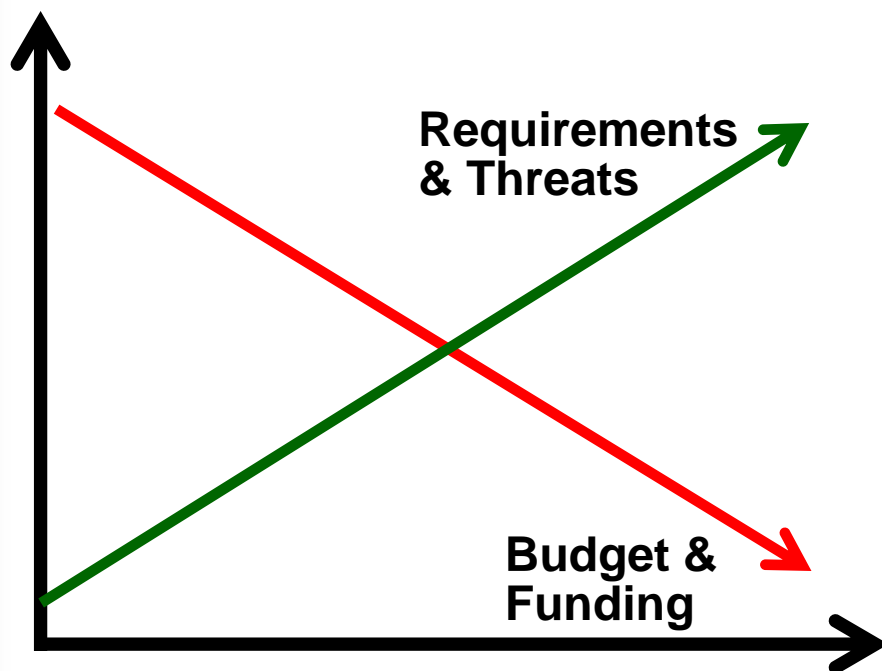
Gen. Lloyd J. Austin III
Vice Chief of Staff of the Army
(Commanding General, XVIII ABC, August 2009)

The IT Network is One of the Army's Top Modernization Priorities



The Future of DoD IT

The IT Dilemma



"I am not going to hollow out this force ... We're going to learn the lessons from the past ... we have to look at every area within the Defense Budget, decide what's needed, what's not needed, look at efficiencies, look at where we can be able to achieve savings."

— **Leon E. Panetta**
Secretary of Defense
17 November 2011

Modernization of the Network that is Effective,
Affordable and Sustainable



Joint Information Enterprise – End State –



"The U.S. Armed Services must achieve unprecedented synergy to ensure access to contested waters, skies, land, space and networks in the face of emerging weapons". ~ Chairman of the Joint Chiefs of Staff Gen. Martin Dempsey



SecArmy IT Management Reform

Intent

- ★ CIO/G-6 to Develop a Comprehensive Proposal to **Modernize the Network** and Realize **Enterprise Efficiencies** With the Goal to **Achieve \$1.5B** in Savings per Year, Starting FY15 *While Not Compromising LandWarNet Effectiveness or Security*

Current Situation

- ★ LandWarNet Recognized as Critical for Mission Execution; “Network is One of the Army’s Top Modernization Priorities”
- ★ IT Resource Portfolio Does Not Account for Over a Third of Army’s IT Spending; Limits Ability to Prioritize Resources to Meet Army Missions and Ability to Implement Reforms
- ★ Business Processes Lack Agility to Leverage New Technologies

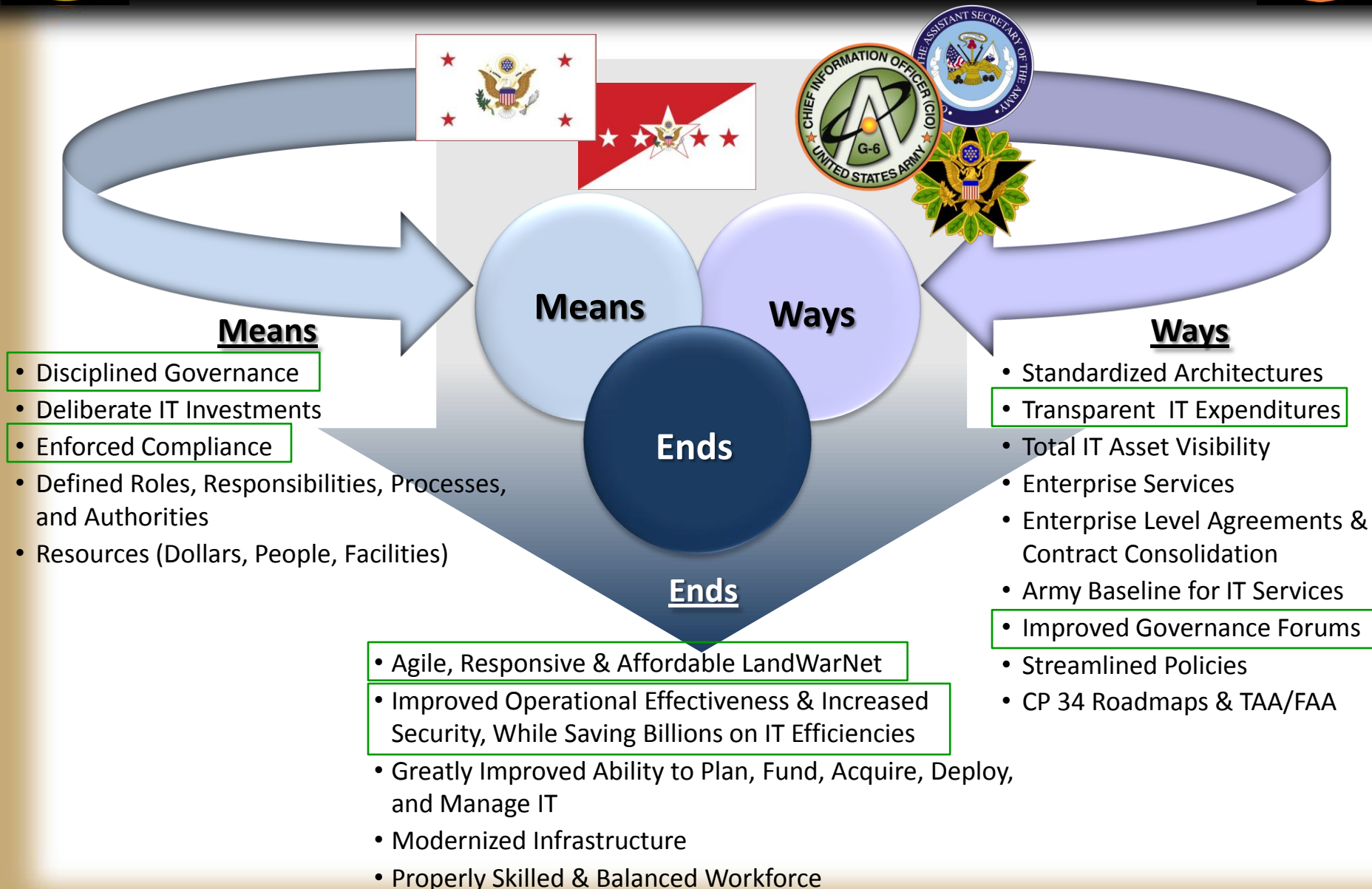
“...apply the same rigor and discipline to the institutional Army to have the same innovation and adaptability as in our Operating Force”

HON John M. McHugh





IT Management Reform Strategy





Everything Is Network Dependent

★ Our Challenges:

- How Do We Make Technology Work For Us As We Draw Down?
- How Can We Be More Effective?

★ Strategic Decision – This is a Zero Sum Game

★ Modernizing LandWarNet as a Platform

- We Must Train As We Fight With Little to No Notice In Any Austere Environment
- Installation as a Docking Station
- Modernize From Post/Camp/Station to the Tactical Edge



Competing Priorities

Ground Combat Vehicles



Bradley A3 Infantry Combat Vehicle



Bradley Armored Fighting Vehicle

The Army Planned to Begin Fielding the GCV by 2015-2017; FY2012 Budget Request for the GCV was \$884.387M for RDT&E, Reflecting a Seven-Month Delay in the Program

New Aviation



Army Aviation Sikorsky X-2

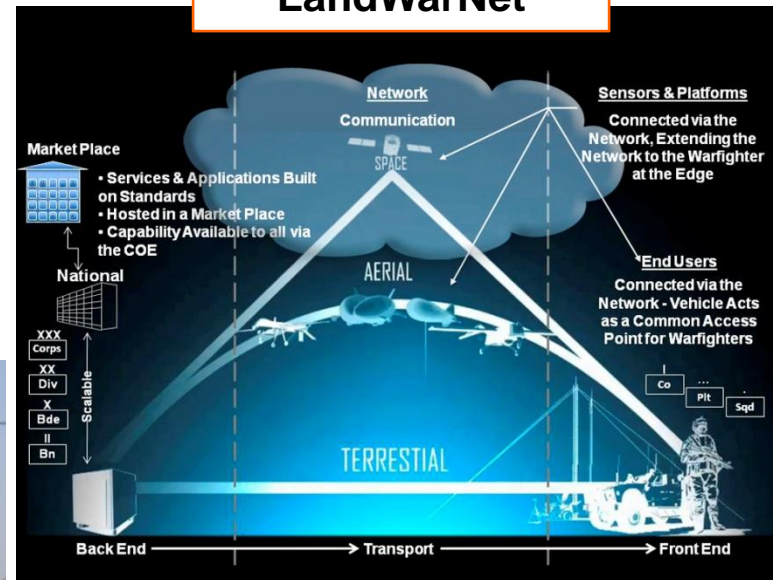
UH-72 Lakota



UH-72a EADS

Army Must Find Replacements for an Aviation Fleet That Does not Have an Infinite Lifespan; the Apache & Black Hawk Lifespans End in 2040, Chinook's Ends in 2035 and Kiowa's Ends in 2025.

LandWarNet



LandWarNet Recognized as Critical for Mission Execution; "Network is the Army's top Modernization Priority"

Army Has 28 Separate Networks, Each With Varying Degrees of Security – LandWarNet is a Sieve. We Must Consolidate and Secure our Network and Modernize the Network as a Platform.

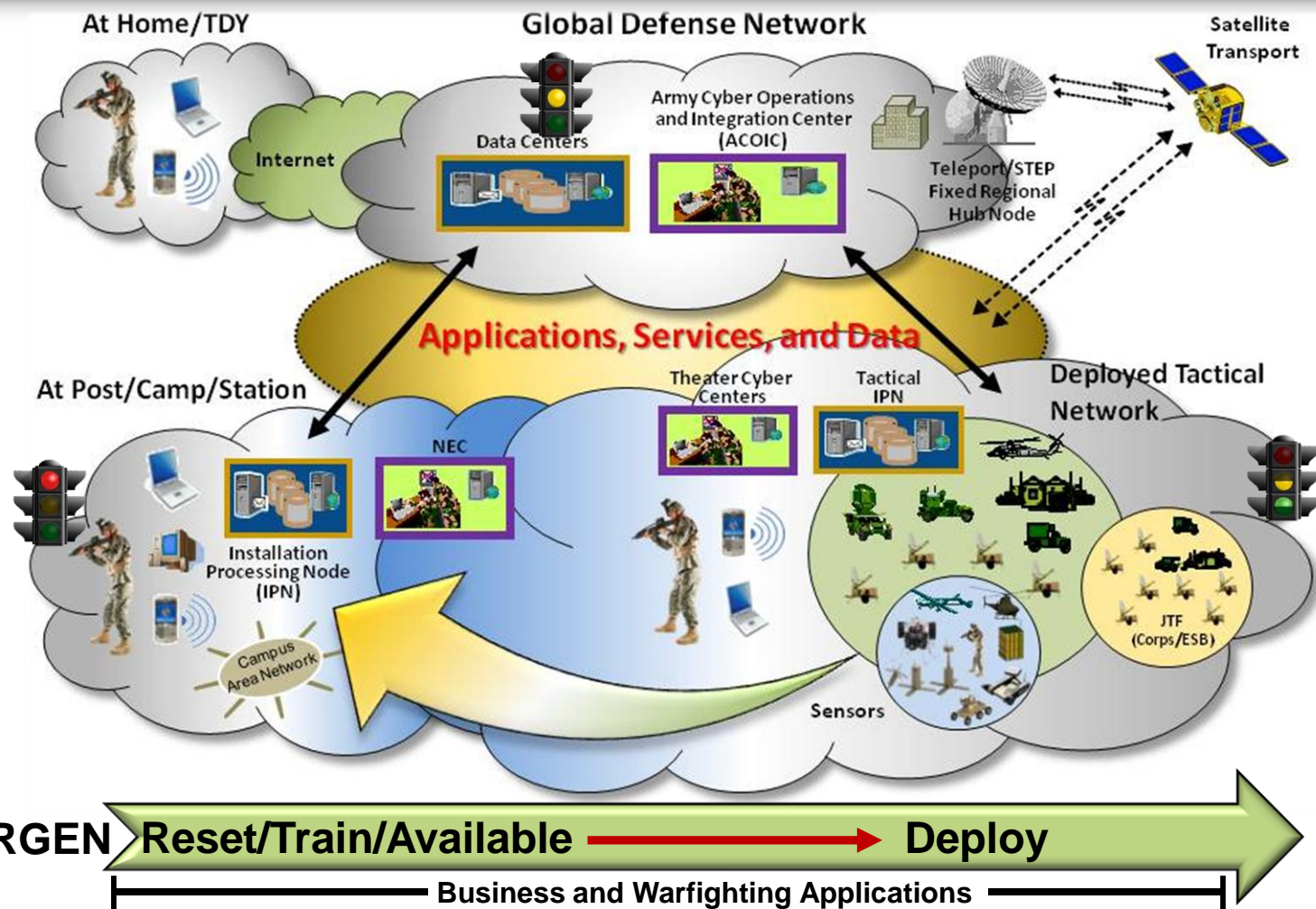
How Do We Balance Operational Risk and Dwindling Resources Over the POM Without Breaking the Programs?





LandWarNet

"Powering America's Army"



The Network is Core to a Smaller, More Capable, Better Trained Expeditionary Army
– With 80% of Our Forces CONUS-Based –



Big Game Changers...

"End-to-End Information Environment"

★ Allied Mission Network (AMN)

"This is the best game changer preparing us for deployment."

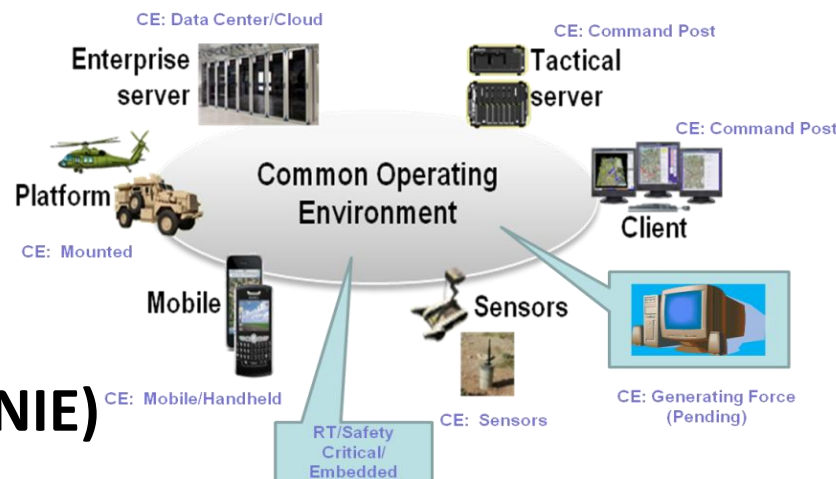
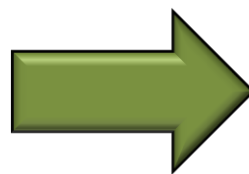
— MG James L. Huggins, Jr.

Commanding General
82d Airborne Division

Training Real-Time How We Will Fight



★ Common Operating Environment (COE)



★ Network Integration Evaluations (NIE)

★ Network Capability Portfolio Reviews (CPR)

★ Joint Information Enterprise (JIE)



DoD Enterprise Email Update (1 Year Later)

- ★ Significant & Measureable Improvement to Army and DISA IT Service Management Business Processes
- ★ First Use of DISA Provisioning for:
 - Defense Manpower Data Center (DMDC)/DISA Provided DoD Enterprise Directory Services – 3.8M User Global Address List
 - DoD Enterprise Email – 1.4M Unclassified and 200K Classified Mailboxes
 - DoD Mobility Service – Visibility and Management of Mobile Devices
- ★ Significantly Improved Security
- ★ Cost Transparency Across the Army – New Approach for IT Services
- ★ Army Acquisition Executive (AAE) Designated a Formal Acquisition Program Jan 25
- ★ Migrations Restarted Mon, Mar 19
- ★ Complete Migrations March 2013

On Feb 14, 2012 the Secretary of the Army certified to Congress that “the selected acquisition approach is in the best technical and financial interests of the Army, and provides for maximum amount of competition possible in accordance with Section 2302(3)(D) of Title 10, US Code.” FY12 NDAA Section 353 report, <http://www.army.mil/XXXX>.



Top 5...There Are More

- ★ DoD Enterprise Collaboration Service
- ★ Re-Architecting the Security Architecture – DoD Top Level Architecture
- ★ Implementing Regional Unified Capabilities (Presence & Awareness, Chat, VOIP, Video, Desktop & Application Sharing) – Eliminate Legacy TDM Telephone Switches
- ★ Army Data Center Consolidation
- ★ Enterprise IT Asset Management

***Operational Effectiveness, Security, Efficiency ...It's All About the Data
- Personal, Organizational, and Public Data Stored in and Accessible From
The DoD Private Cloud***



Defending the Network

As an Army, We Know What to do When Someone Attacks our Perimeter, or When Someone Loses or Takes a Weapon...



...but How do We Defend our Network Perimeter From Multiple Intrusion Attempts on a Daily Basis, or the Growing Number of Negligent Disclosures

"We could face a cyber attack that could be the equivalent of Pearl Harbor [that could] ... take down our power grid system, take down our financial systems in this country, take down our government systems, take down our banking systems ... they could virtually paralyze this country."
– Offutt Air Force Base, NE, 5 August 2011

"I've got a hell of a lot to keep me awake at night. I have to tell you that I do worry, however, about this new area I talked about of Cyber War. We are literally getting hundreds of thousands of attacks every day that try to exploit information in various agencies and departments and frankly throughout this country. So the one thing that I worry about the most right now is knowing that this is possible, and feeling that we have not taken all the necessary steps to protect this country from that possibility.

– University of Louisville, KY, 1 March 2012



Hon. Leon E. Panetta
Secretary of Defense



A Military of Millennials... The New Online Generation

- ★ Millennials (Gen Y), Born After 1978...Cannot Recall a Time When the Internet was Not at Their Disposal
 - Affinity for the Interconnected World and the Benefits of the Online Community
 - Gen Y 'Lives' on the Internet
- ★ Well Known Ability to Multitask
- ★ We Are Recruiting them on YouTube – How do We Train and Retain Them?




- ★ “When Applying Mission Command – Collaboration and Trust Are As Important as Directive Authority” TRADOC Pam 525-3-1
- ★ Millennials Are More Prepared to do Battle in Cyberspace and Fight on the Information Front
- ★ How Do We Leverage Their Inherent Strengths?

The Network is Not Only an Operational Issue, It is a Training and Retention Issue



– Thank You –

A silhouette of two soldiers in a mountainous landscape at sunset. One soldier is standing and holding a rifle, while the other is kneeling and also holding a rifle. The sun is low on the horizon, creating a warm, orange glow. The soldiers are positioned in the foreground, with mountains in the background.

I Value Your Continued Service and the Collective Experience. Thank You For Supporting America's Most Precious Resources: Her Sons & Daughters and For Your Continued Service to Our Great Nation.



Capability Improvements

Information Papers Available at [HTTP://CIOG6.ARMY.MIL/INFOSHEET.ASPX](http://CIOG6.ARMY.MIL/INFOSHEET.ASPX)

- ★ Army Data Center Consolidation Plan (ADDCP)
- ★ Applications for Army (A4A)
- ★ Army Request for IT (ARFIT)
- ★ Army Data Strategy
- ★ Army Baseline IT Services (ABITS)
- ★ Common Operating Environment (COE)
- ★ Enterprise Collaboration Service (ECS)
- ★ Enterprise Email (EEmail)
- ★ Identity Management
- ★ IT Asset Management (ITAM)
- ★ Mobile Computing and Mobile Device Management Capability
- ★ Army Spouse and Retiree Smartcard Pilot
- ★ Virtual End User Environment (Zero Client Initiative)



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